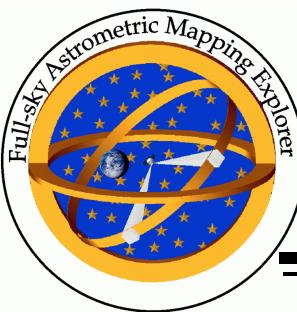




Instrument Optics

Lynn Huff



Optical Requirements

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Optical Quality	<1/20 wave rms	<1/20 wave rms	was 1/40 wave rms
Effective Focal Length	15.00 +/- 0.1 meters	15.017 +/- 0.05 meters	
Field of View	1.14 degrees full angle	1.14 degrees full angle	was 1.10 degrees
Clear Aperture	55.9 - 56.3 cm x 13 cm	56.0 cm x 13.0 cm	was 60 cm
Basic Angle	81.5 - 85 degrees	84.3 degrees	
Basic Angle Stability:	<1 uarc / minute	<2 uarc / minute TBD	
Field Curvature	<1/20 wave rms	<1/100 wave rms	
Spectrum	400 nm to 900 nm	400 nm to 900 nm TBD	option for u' band
Distortion	<15 microns	<3 microns TBD	with aspherized FPA Window
Lateral Color	TBD	<3 microns TBD	with aspherized FPA Window
Transmission	15th Magnitude star	15.5 Magnitude TBD	